ABSTRACT OF THE DISCLOSURE

METHOD AND SYSTEM FOR TRACING CHANGES IN METRIC VARIABLES

IN AN SYMMETRIC MULTIPROCESSOR (SMP) ENVIRONMENT

A method and system for monitoring performance of a
program using global metric variables to provide the
support in an symmetric multiprocessor (SMP) system. A
Java virtual machine (Jvm) either calls the profiler
whenever bytes are allocated or provides an interface to
allow the profiler to determine the value of the change
in the metric for the current thread. The profiler then
applies the changes to a metric for the current thread.
Alternatively, per processor data areas are maintained
for storing per processor metric values. Whenever a
thread switch occurs or there is a request for the metric
on a specified thread, an operating system kernel updates
the thread level metric values with changes in the values
per processor metrics.